

Leadership Computing Update

NATIONAL CENTER
FOR COMPUTATIONAL SCIENCES



presented by

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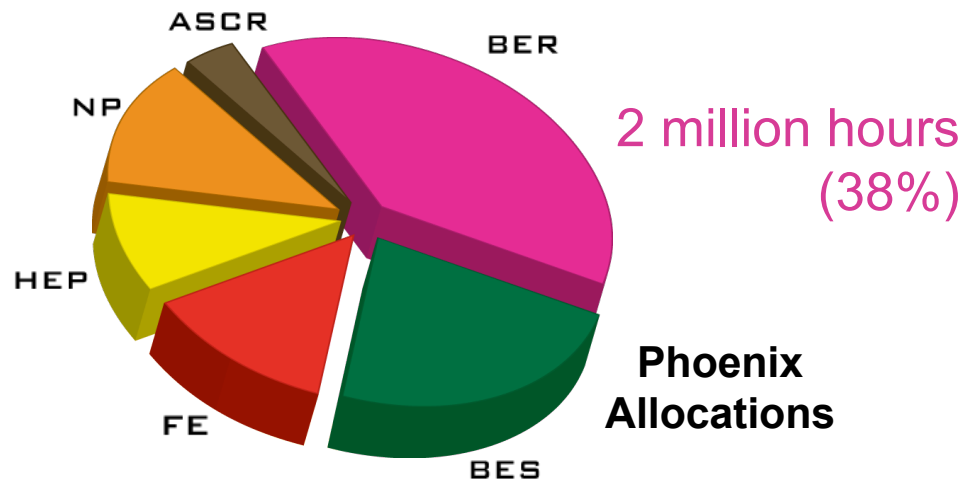
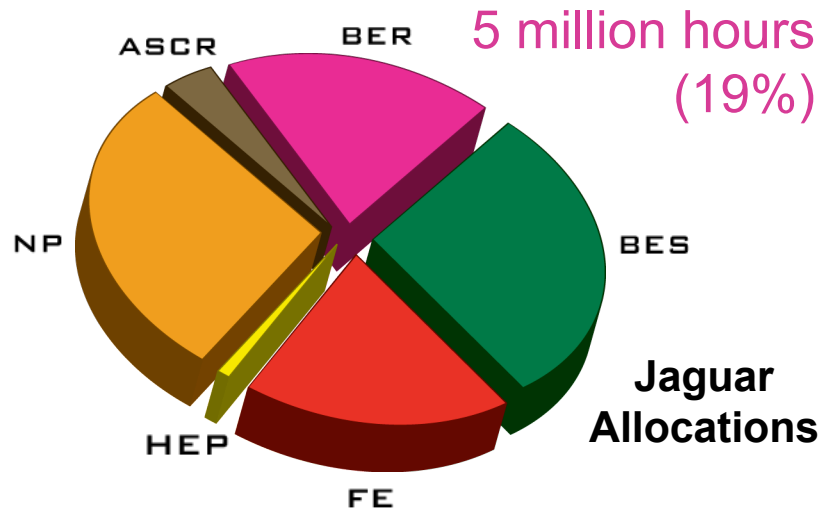
 U.S. Department of Energy



Climate Change Prediction Program

Oak Ridge National Laboratory
U.S. Department of Energy

NCCS FY06 BER allocations



- Climate-Science **Computational End Station** Development and Grand Challenge Team
Warren Washington, NCAR
 - Jaguar: 3,000,000 hours
 - Phoenix: 2,000,000 hours
- Eulerian and Lagrangian Studies of Turbulent Transport in the Global Ocean
Synte Peacock, U Chicago
 - Jaguar: 1,496,856 hours
- Next Generation Simulations in Biology
Pratul Agarwal, ORNL
 - Jaguar: 500,000 hours
- The Role of Eddies in the Thermohaline Circulation
Paola Cessi, UCSD
 - Phoenix: 29,000 hours

2007 call expected in May!

NCCS hardware roadmap

- **Currently in production:** 18 TF Phoenix and 25 TF Jaguar
- **2006** Upgrade Jaguar to dual core, more cabinets, 100 TF
- **2007** Upgrade Jaguar to 250 TF
- **2008** Deploy 1 PF Cray “Baker”
- **2010** Sustained-PF Cray Cascade system

